

Attorney Docket No. NEX 05/DC-CON2 Sheet 2/32
Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US

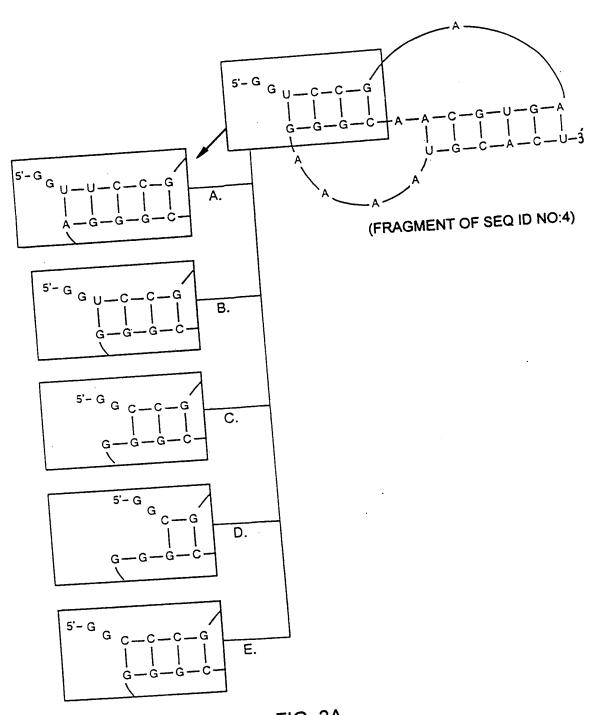
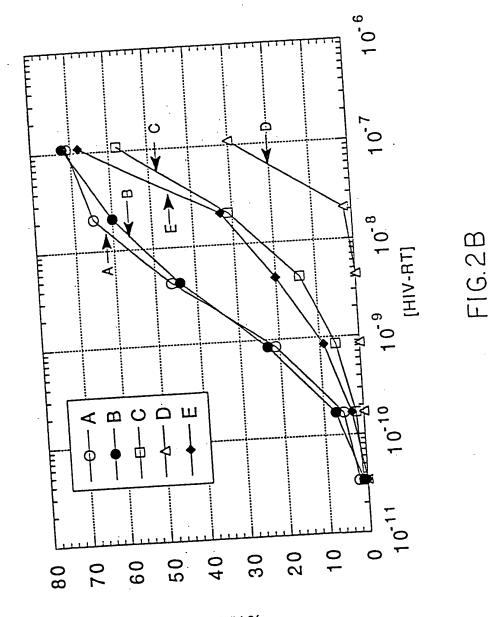
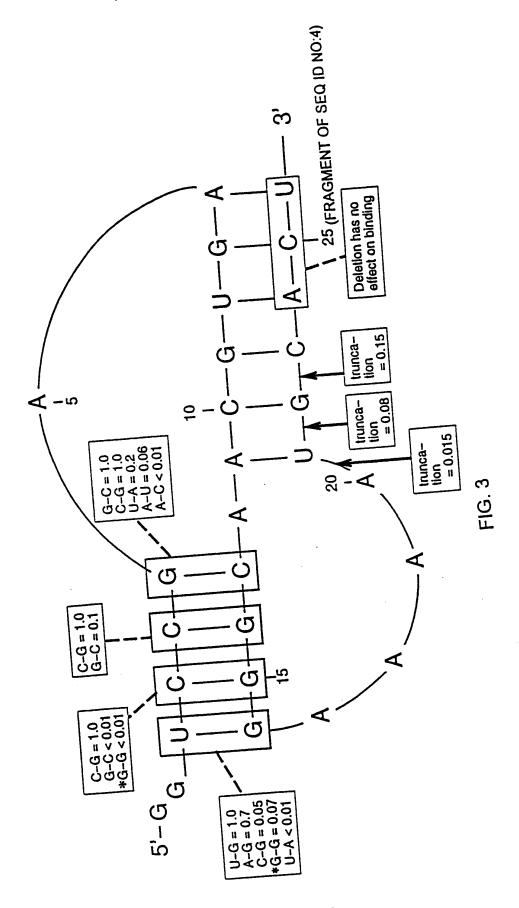


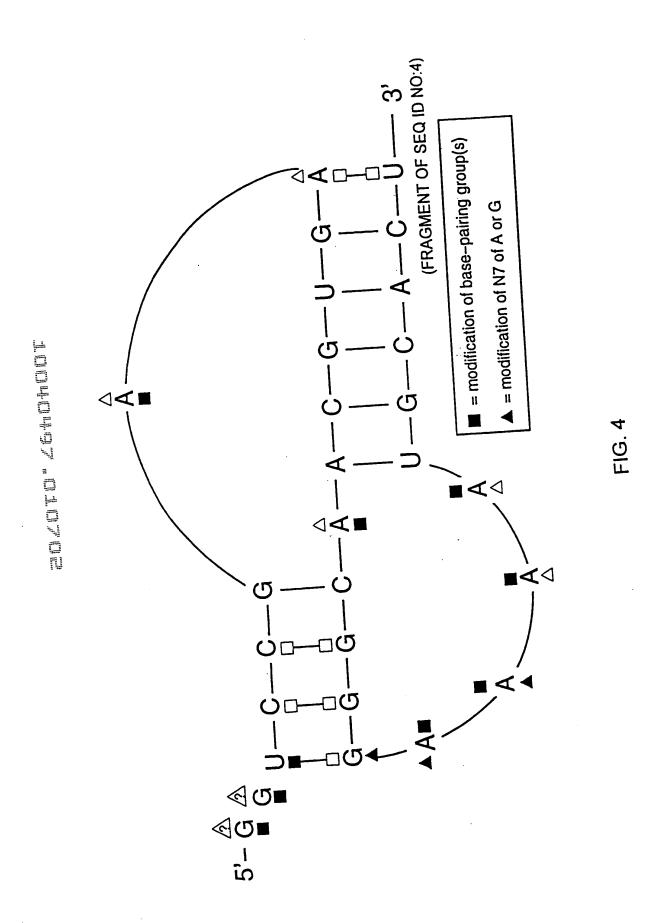
FIG. 2A



% FINA BOUND

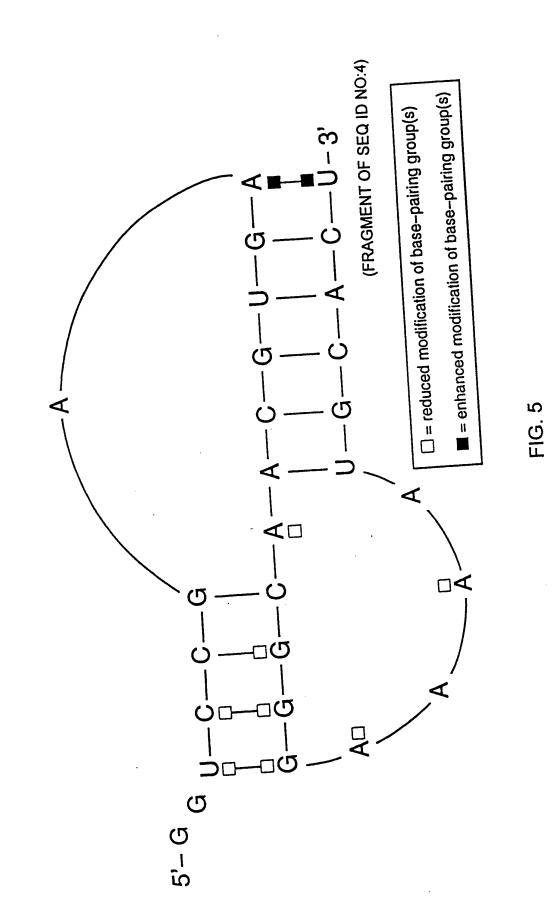
Attorney Docket No. NEX 05/DC-CON2 Sheet - 132Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US

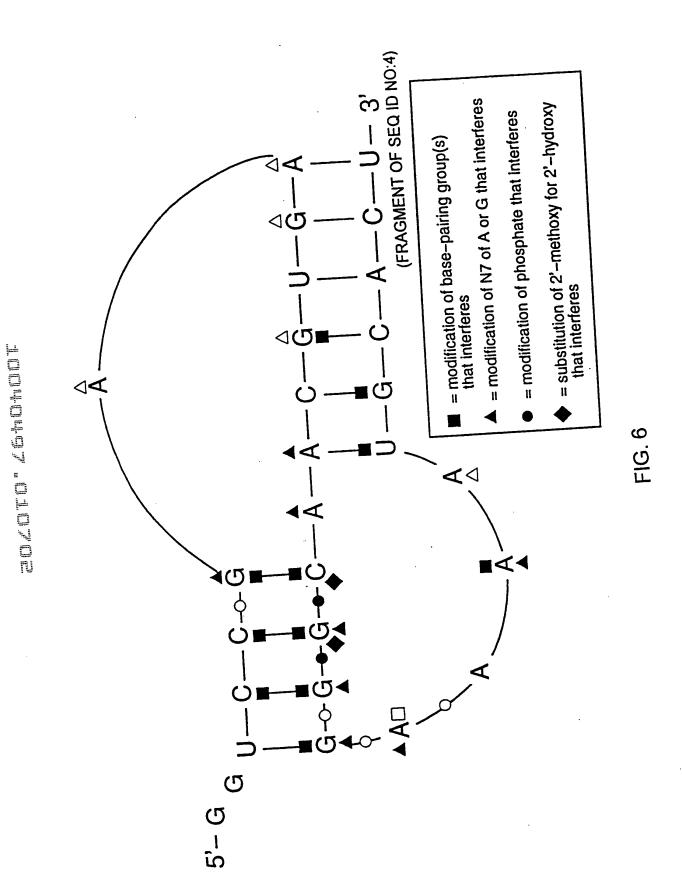




lourors, cliotor

Attorney Docket No. NEX 05/DC-CON2 Sheet 6/J-Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US





 denotes a 2' O-methyl instead of an OH, denoted by (O), at this position on the ribose

Attorney Docket No. NEX 05/DC-CON2 Siee 2022
Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US

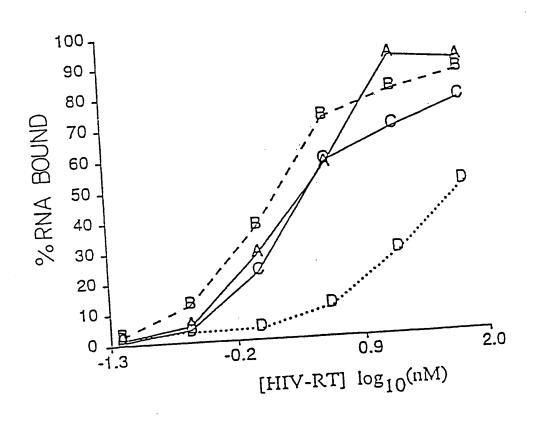
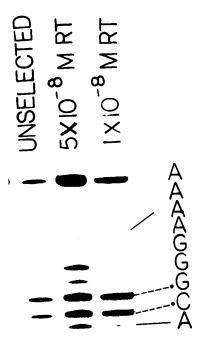


FIG.7B

Attorney Docket No. NEX 05/DC-CON2 SACE TITLE: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al.

Express Mail Label No. EV 019561696 US



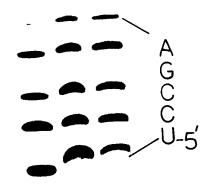
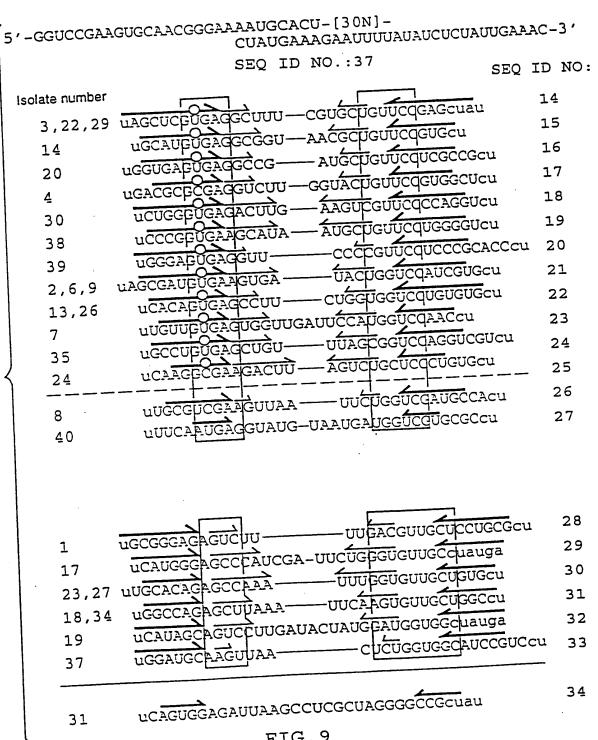
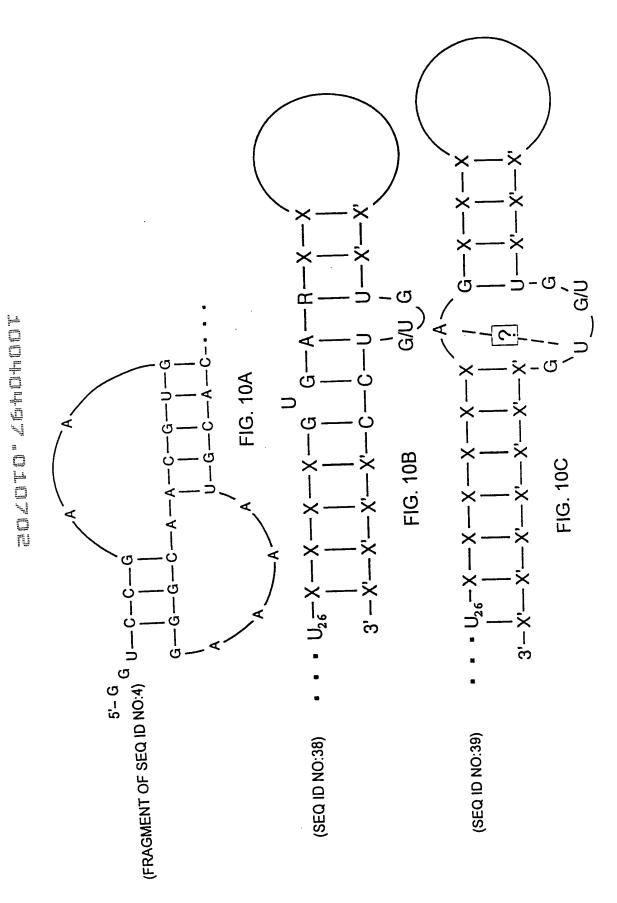
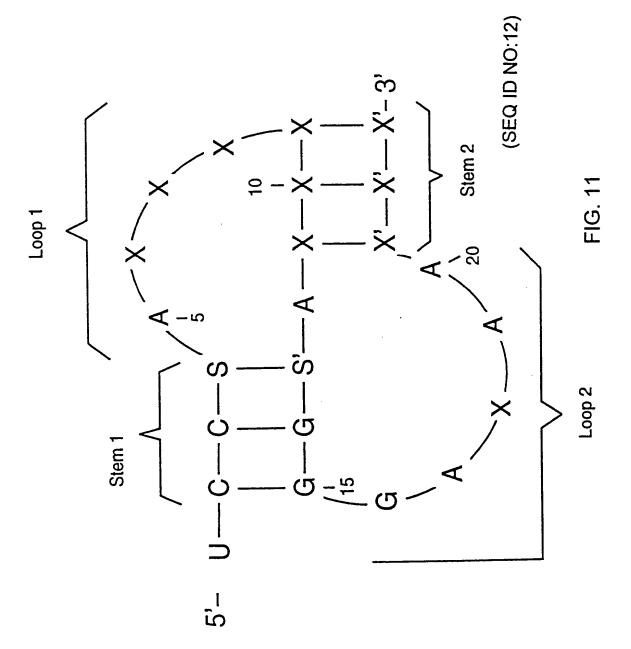


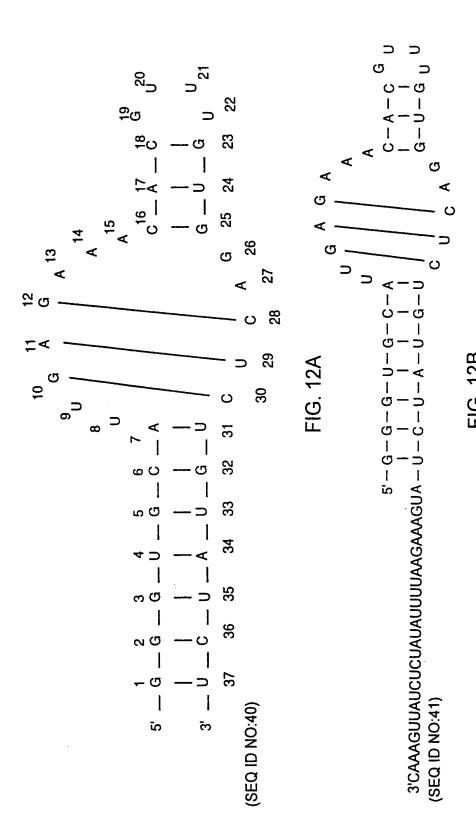
FIG.8

Attorney Docket No. NEX 05/DC-CON2 Sheet 11/3-Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US



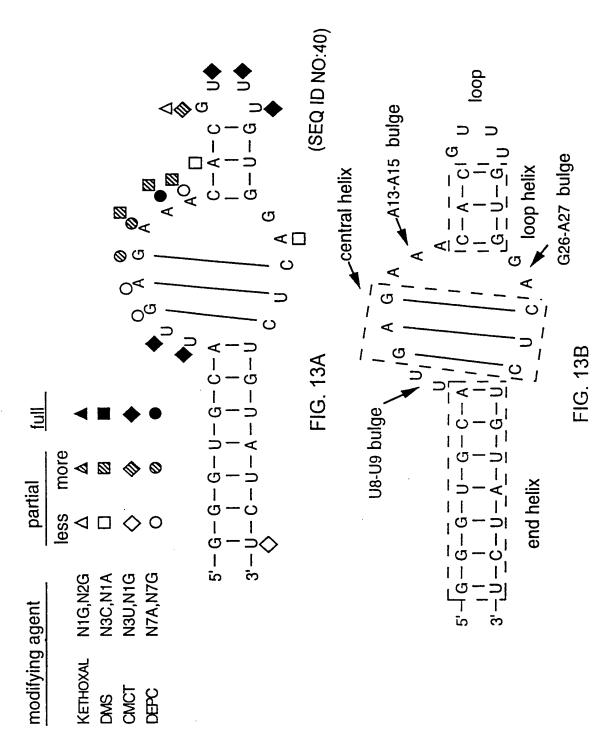


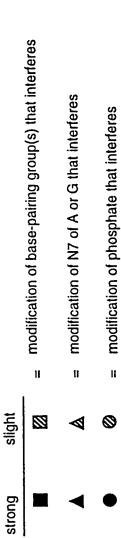




(SEQ ID NO:42) 5' GTTTCAATAGAGATATAAAATTC 3'

FIG. 12C





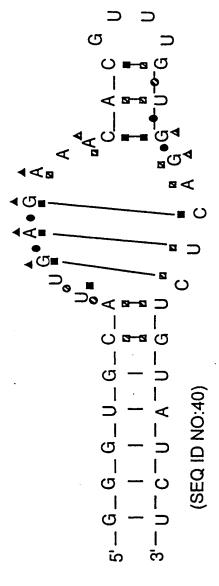


FIG. 14

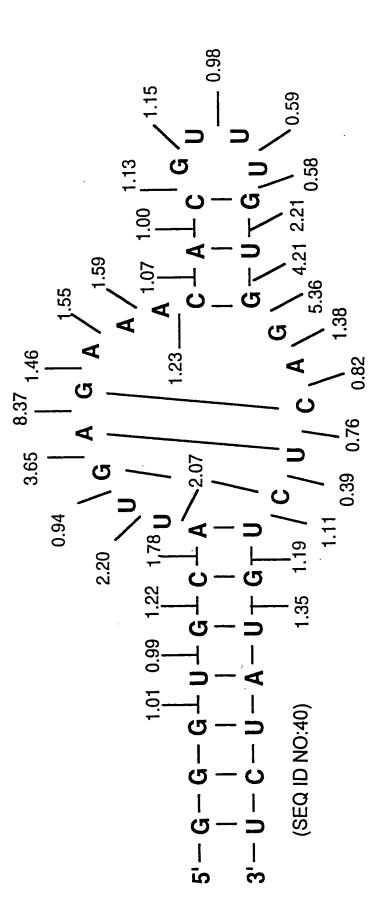
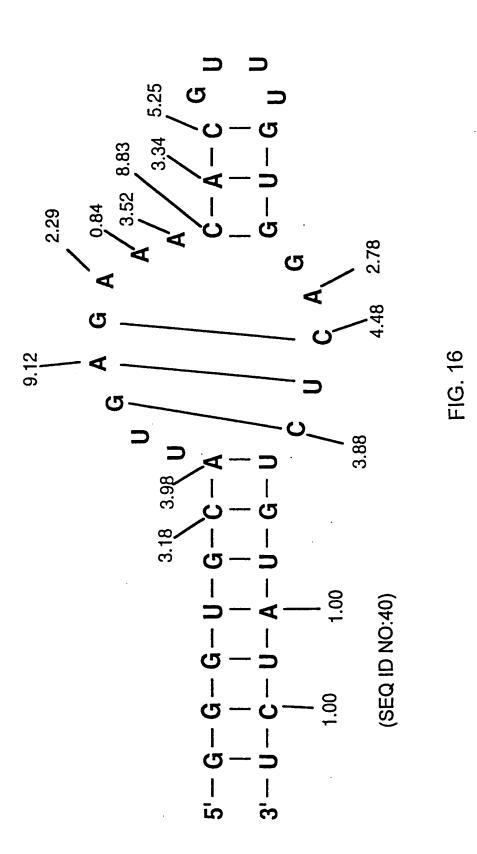


FIG. 1



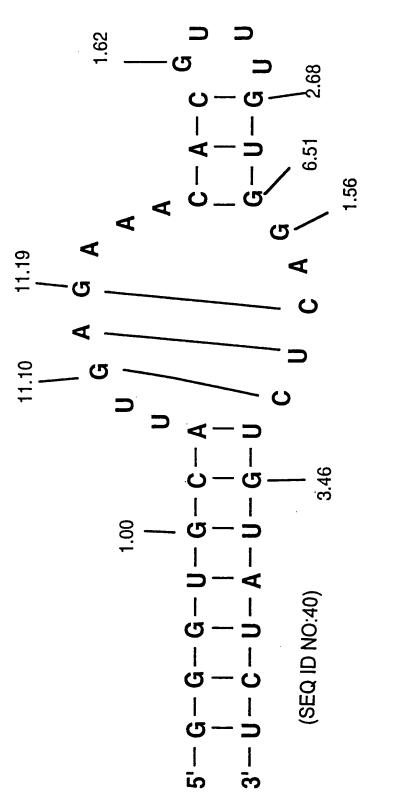
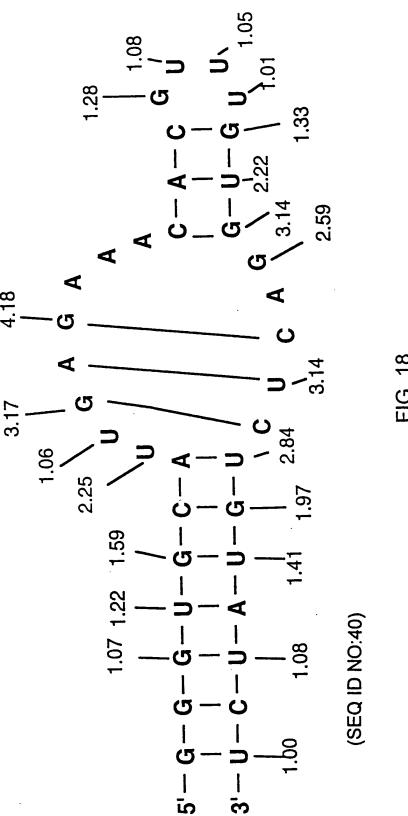
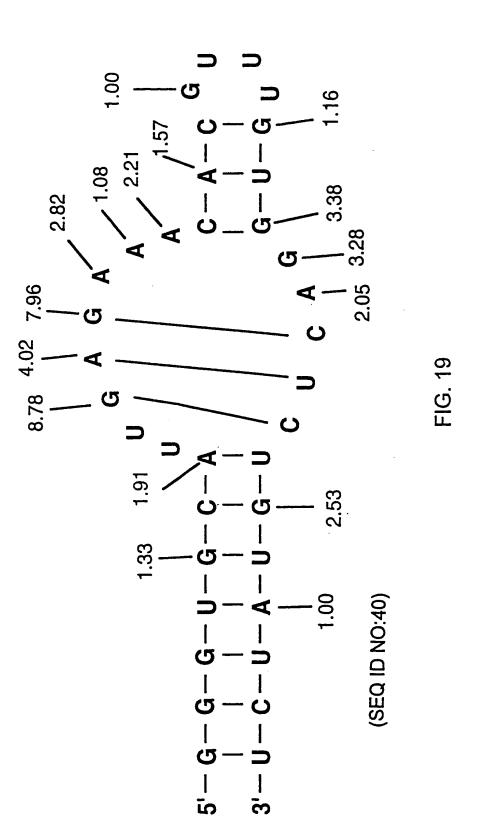


FIG. 1.





▼ = reduced modification of base

▲ = enhanced modification of base

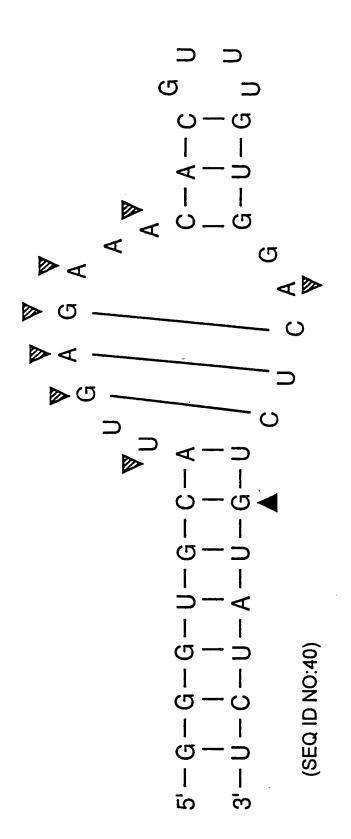


FIG. 20

Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

SEQ ID NO.:43

5 - - GGGACUAUUGAUGGCCUUCCGACC - 6a - CACACAGAGGUAAAGAGGAUCCGGG - 3 '

| Bias | Biased ligand sequences | SEO ID NO. |
|----------|------------------------------------------------------------------------------------|------------|
| 6a | <u>GGGUGCA</u> UUGAGAAA <u>CACG</u> U-U <u>IIGUG</u> GACUC <u>UGUAUCU</u> | 40 |
| ~ | <u> VGGUGCG</u> UUGAGAAA <u>CAGG</u> U-U <u>UUUG</u> GACUC <u>CGUACCA</u> | 45 |
| 7 | <u>GUAUGCA</u> UUGAGAGU <u>CACA</u> C-U <u>UGUG</u> GACUC <u>UGCAU</u> C <u>C</u> | 46 |
| ю | <u>agaugga</u> uugagaaa <u>ca</u> c ua -uu <u>aug</u> gacuc <u>uccauc</u> g | 47 |
| 4 | AGCUUCGUCGAGAUACACGU-UGAUGGACUCCGAAGCA | 48 |
| 2 | UC<u>GUA</u>CG UUGAGAAA <u>CA</u> AGU-UUA <u>UG</u> GACUC <u>CGUAC</u> CU | 49 |
| 9 | UCGAUCGUUGAGAUA <u>CAC</u> GC-UA <u>GUG</u> GACUC <u>CGA</u> AACU | 20 |
| 8 | UACUGCAUCGAGAUACACGU-UUGUGGACUCUGCACAU | 51 |
| 6 | UGAUACGUUGAGAAACACAA-UGCUGGACUCCGCAUCC | 52 |
| 10 | GCCUGCAUUGAGAAA <u>CAGGA</u> -UUCUGGACUC <u>UGC</u> CACU | 53 |
| 12 | C <u>GCUAUG</u> UUGAGAAA <u>CA</u> CUU-UGC <u>UG</u> GACUC <u>CGUAGC</u> U | 54 |
| 13 | UAC<u>UGCA</u>UCGAGAAA<u>CA</u>CGU-AAGUG-ACUC<u>UGCA</u>UCC | 55 |
| 15 | <u>cgguacg</u> ucgagada <u>ca</u> cg a-aga uggacuc <u>cguaucg</u> | 56 |

TOOHO497 CIOTOZ

| 7 | GACUGCAUCGAGAAACACUG-AUGUGGCCUCCGCACGG | 37 |
|----|-------------------------------------------------------------------------------------|----|
| | <u>AGAUGGA</u> UUGAGAAA <u>CACG</u> U-U <u>CGUG</u> GACUC <u>UCCAACU</u> | 36 |
| 7 | <u>AGAUUCG</u> UUGAGAAA <u>CAC</u> AU-GG <u>GUG</u> GACUC <u>U</u> CCCG <u>CU</u> A | 35 |
| 9 | ACCUGCAUCGAGAUACACGA-UUGUGGACUCUGCAGCC | 33 |
| 9 | CCGUGCGUUGAGACACACAC-CGAUGGACUCGGCAUGU | 32 |
| Ó | c <u>ugugga</u> uugagcaa <u>cac</u> gu-ga <u>gug</u> gacuc <u>uccaca</u> u | 31 |
| 9 | UCC <u>UGCA</u> UUGAGAAA <u>CAG</u> UG-AU <u>CUG</u> GACUC <u>UGCA</u> ACU | 30 |
| 39 | <u>GGCACCG</u> UUGAGAAA <u>CAC</u> AU-GC <u>GUG</u> GACUC <u>CGUGCC</u> C | 29 |
| 9 | <u>ucguecq</u> ucgaecaa <u>ca</u> cgu-uga <u>ug</u> gacuc <u>cgcacag</u> | 28 |
| 9 | <u>Gagugge</u> ucgagaaa <u>cag</u> gu-ug <u>cug</u> gacuc <u>gccacau</u> | 27 |
| 9 | <u>AGCUACG</u> UUGAGADA <u>CACGU</u> D <u>ACGUG</u> G-CUC <u>CGUAGC</u> C | 25 |
| 9 | UGCUACGUUGAGAUACACGU-UGAUGCACUCCGUAGCU | 24 |
| 9 | AAGUGCA UUGAGA U A <u>CAA</u> AU-GA <u>UUG</u> GACUC <u>UGCAC</u> ac | 23 |
| ίς | AGCUACAUCGAGAAACAAGA-UUUUGGACUCUGUAGCG | 21 |
| Ŋ | <u>GGAGACG</u> UCGAGAAA <u>CACG</u> U-U <u>UGUG</u> GACUC <u>CGUCUCU</u> | 18 |
| ហ | AACUCCAUCGAGAAACACGA-UAGUGGACUCUGGAGCU | 17 |

NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

SEO ID NO.:

lootote/lolozom

| 38 | <u>AGCUACQ</u> UUGAGAAA <u>CA</u> GUA-UAA <u>UG</u> GACUC <u>CGUAGCU</u> | 73 |
|----|-------------------------------------------------------------------------------------|----|
| 40 | GAGUGCGUCGAGAAACACAU-UUGUGGACUCCGCACAC | 74 |
| 42 | <u> vcguacq</u> uugagaaa <u>cac</u> gc-ua <u>gug</u> gacuc <u>cguauqu</u> | 75 |
| 43 | <u>AGAUACG</u> UUGAGAGA <u>CACGC</u> GAGGACUC <u>CGUAUCU</u> | 16 |
| 44 | <u>AGGA</u> UCACAGAGAAA <u>CACC</u> GUG <u>GGUG</u> G-CUC <u>CCU</u> CUAU | 77 |
| 45 | <u>GUGCGCA</u> UCGAGAAA <u>CA</u> CGU-U GA UGGACUC <u>UGC</u> AU <u>GCAC</u> | 78 |
| 47 | G <u>agagga</u> ucgagaaa <u>cacg</u> u-a <u>ugug</u> gacuc <u>ucc</u> a <u>ucu</u> | 79 |
| 48 | G <u>GAUGGA</u> UUGAGACACACACGU- <u>AUGUG</u> GACUC <u>UCCAUC</u> A | 80 |
| 49 | <u>ucggca</u> uugagada <u>ca</u> cgu-aga <u>ug</u> gacuc <u>ugucu</u> c <u>a</u> | 81 |
| 20 | <u>vgga</u> ccguagagaaacaccuuuga <u>ug</u> g-cuc <u>ccucu</u> gu | 82 |

FIG. 21-C

NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

| | | 0 | 3 | | 2 | | പ്രി | / | 1 |
|--------|----|---|----|----|----|------|------|---|---|
| ပ | 30 |) | | 30 | 4, |) | 26 | | |
| A | 38 | 0 | 38 | 0 | 0 | 0 | 38 | | |
| | 38 | 0 | 0 | 38 | 0 | 0 | 38 | | |
| ပ | 38 | 0 | 38 | 0 | 0 | 0 | | | |
| ٧ | | | | | | | | | |
| A | 25 | 0 | 25 | 2 | 2 | 6 | | | |
| A | 36 | 0 | 36 | 2 | 0 | 0 | | | |
| g | 38 | 0 | 0 | 0 | 38 | 0 | 38 | | |
| А | 38 | 0 | 38 | 0 | 0 | 0 | 38 | | 7 |
| g ' | 38 | 0 | 0 | 0 | 38 | 0 | 38 | | 1 |
| n | 22 | 0 | 2 | 14 | 0 | . 22 | | | • |
| _ | 37 | 0 | 0 | 1 | 0 | 37 | | | |
| A | 18 | 0 | 18 | | 19 | 0 | 35 | | |
|) ၁ | 31 | 0 | 0 | 31 | 4 | - | 35 | | |
| 9 | 20 | 0 | Ξ | က | 20 | 4 | 33 | | |
|) | 30 | 0 | 5 | - | 2 | 30 | 31 | | |
| า ย | 16 | 0 | 8 | 14 | 16 | 0 | 26 | | |
| G | 19 | - | 8 | 8 | 19 | 2 | 20 | | |
| 0 | 10 | 0 | 12 | 3 | 10 | 19 | 16 | | |
| 6a | × | V | 4 | ပ | U | 2 | ф | | |

| | 79 | 00 | 80 | 79 | .13 | 8 | စ္တ |
|------------|------|-----|------|------|------|-----|------|
| ပ | | | | | | | |
| A | 1.00 | 00. | 1.00 | .00 | .00 | 9. | 1.00 |
| ပ | 1.00 | .00 | 00. | 1.00 | 00. | 0. | 1.00 |
| ٧ | 1.00 | 00. | 1.00 | 00. | 00. | 9. | 00. |
| A | 99. | 00. | 99. | .05 | .05 | .24 | 00. |
| Α | .95 | 0. | .95 | .05 | 00. | | 0. |
| g ' | 1.00 | 00. | 00. | 00. | 1.00 | 00. | 1.00 |
| A | 1.00 | 00. | 1.00 | .00 | 00. | 00. | 1.00 |
| 9 | 1.00 | 00. | 00. | 00. | 1.00 | 00. | 1.00 |
|) | .58 | 00. | .05 | .37 | 00. | .58 | 00. |
|) | 76. | 00. | 00. | .03 | 00. | .97 | 00. |
| <u> </u> | .47 | 00. | 74. | .03 | .50 | 00. | .92 |
| Υ . | .82 | 00. | 00. | .82 | 11. | .03 | .92 |
| 3 0 | .53 | 00. | .29 | .08 | .53 | .11 | 78. |
| J | .79 | 00. | .13 | .03 | .05 | 62. | .82 |
| <u>1</u> 5 | .42 | 00. | .21 | .37 | .42 | 00. | .68 |
| 0 | .50 | .03 | .21 | .21 | .50 | .05 | .53 |
| g | .26 | 00. | .32 | 80. | .26 | .50 | .42 |
| 6a | | ۵ | 4 | U | g | 2 | рb |

FIG. 22B-1

NUCLEIC ACID LI Inventor: Gold et al. Express Mail Label No. EV 019561696 US

| = | space | _ | ⊃ | | (T | \supset | ග | <u>ত</u> | ۷ | ပ | <u> </u> | ပ | <u> </u> | <u>ග</u> | | 7 | A | \supseteq | ပ | | J |
|----|----------------------------------------|-----|-----------------------------------------|---------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22 | | 2 | (C) | 14 | 19 | 38 | 38 | | | | | | | 7 | 28 | 15 | 31 | | 15 | 26 | 19 |
| 0 | | | 0 | 0 | 0 | 0 | 0 | - | က | | | | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| 8 | 0 | | 6 | 7 | = | 0 | 0 | 0 | | | | 0 | | | 0 | 2 | 31 | | 4 | 7 | 3 |
| 5 | 0 | | - | 4 | 5 | 0 | 0 | | | | | | | 0 | 6 | 20 | 9 | | 10 | 26 | 11 |
| 3 | 0 | | 5 | 13 | 19 | 0 | 38 | | | | | | · | | 28 | - | 1 | | 6 | 5 | 5 |
| 22 | 3 | 2 | 3 | 14 | ဇ | 38 | 0 | | 0 | | | | | 7 | 0 | 15 | 0 | | 15 | 0 | 19 |
| | | | | 18 | 26 | 38 | | | | 38 | | | | 2 | 35 | 33 | 31 | | 26 | 20 | 16 |
| | | | | | | | | | E4 | ტ | 2 | 2A- | 7 | | | | | | | | |
| | 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3ds | 35 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 35 2 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | space U U 35 23 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | space U U G 35 23 14 0 0 9 7 0 0 1 4 0 5 13 3 23 14 | space U U G U 35 23 14 19 35 0 0 0 0 9 7 11 0 0 5 13 19 3 23 14 3 3 23 18 26 | space U G U G 35 23 14 19 38 35 0 0 0 0 0 9 7 11 0 0 1 4 5 0 0 5 13 19 0 3 23 14 3 38 3 23 18 26 38 | space U G G G G 35 23 14 19 38 38 35 0 0 0 0 0 0 9 7 11 0 0 0 1 4 5 0 0 0 5 13 19 0 38 3 23 14 3 38 0 18 26 38 38 38 | space U G U G G A 35 23 14 19 38 38 37 0 0 0 0 0 1 0 0 1 0 0 1 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td>space U G U G A C 35 23 14 19 38 38 37 36 0 9 7 11 0 0 0 36 0 1 4 5 0 0 0 0 0 5 13 19 0 38 37 0 3 23 14 3 38 0 0 0 3 23 18 26 38 38 0 0 8 18 26 38 38 0 0</td><td>space U G U G G C U 35 23 14 19 38 38 37 36 38 0 35 0 0 0 0 1 3 0 0 0 0 0 0 0 38 0 0 0 5 13 19 0 0 0 0 0 5 13 18 26 38 38 0 0 0 1 18 26 38 38 0 0 0 0 1 18 26 38 38 38 38</td><td>space U G U G G C U 35 23 14 19 38 38 37 36 38 0 35 0 0 0 0 1 3 0 0 0 0 0 0 0 38 0 0 0 5 13 19 0 0 0 0 0 5 13 18 26 38 38 0 0 0 1 18 26 38 38 0 0 0 0 1 18 26 38 38 38 38</td><td>space U G U G G G C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U D C U D C U D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D</td><td>space U G U G D G D C D C D 35 23 14 19 38 38 38 38 38 38 38 38 38 38 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<!--</td--><td>space U G U G G G G C U C U G D G 35 23 14 19 38 37 36 38 38 17 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>space U G U G A C U C U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G<td>space U G U G A C U C U G D A 35 23 14 19 38 36 36 38 38 17 28 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>space U G U G A C U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G G G G G G G G G G G G G G G G G G G G G G G G G G G<td>space U G U G A C U C U G D A D 35 23 14 19 38 36 38 38 38 38 15 31 15 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>space U G U G A C U C U G D A D C 35 23 14 19 38 36 36 38 38 17 28 15 31 15 35 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></td></td></td></t<> | space U G U G A C 35 23 14 19 38 38 37 36 0 9 7 11 0 0 0 36 0 1 4 5 0 0 0 0 0 5 13 19 0 38 37 0 3 23 14 3 38 0 0 0 3 23 18 26 38 38 0 0 8 18 26 38 38 0 0 | space U G U G G C U 35 23 14 19 38 38 37 36 38 0 35 0 0 0 0 1 3 0 0 0 0 0 0 0 38 0 0 0 5 13 19 0 0 0 0 0 5 13 18 26 38 38 0 0 0 1 18 26 38 38 0 0 0 0 1 18 26 38 38 38 38 | space U G U G G C U 35 23 14 19 38 38 37 36 38 0 35 0 0 0 0 1 3 0 0 0 0 0 0 0 38 0 0 0 5 13 19 0 0 0 0 0 5 13 18 26 38 38 0 0 0 1 18 26 38 38 0 0 0 0 1 18 26 38 38 38 38 | space U G U G G G C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U C U D C U D C U D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D | space U G U G D G D C D C D 35 23 14 19 38 38 38 38 38 38 38 38 38 38 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>space U G U G G G G C U C U G D G 35 23 14 19 38 37 36 38 38 17 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>space U G U G A C U C U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G<td>space U G U G A C U C U G D A 35 23 14 19 38 36 36 38 38 17 28 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>space U G U G A C U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G G G G G G G G G G G G G G G G G G G G G G G G G G G<td>space U G U G A C U C U G D A D 35 23 14 19 38 36 38 38 38 38 15 31 15 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>space U G U G A C U C U G D A D C 35 23 14 19 38 36 36 38 38 17 28 15 31 15 35 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></td></td> | space U G U G G G G C U C U G D G 35 23 14 19 38 37 36 38 38 17 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | space U G U G A C U C U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G <td>space U G U G A C U C U G D A 35 23 14 19 38 36 36 38 38 17 28 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>space U G U G A C U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G G G G G G G G G G G G G G G G G G G G G G G G G G G<td>space U G U G A C U C U G D A D 35 23 14 19 38 36 38 38 38 38 15 31 15 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>space U G U G A C U C U G D A D C 35 23 14 19 38 36 36 38 38 17 28 15 31 15 35 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></td> | space U G U G A C U C U G D A 35 23 14 19 38 36 36 38 38 17 28 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | space U G U G A C U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G U G G G G G G G G G G G G G G G G G G G G G G G G G G G <td>space U G U G A C U C U G D A D 35 23 14 19 38 36 38 38 38 38 15 31 15 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>space U G U G A C U C U G D A D C 35 23 14 19 38 36 36 38 38 17 28 15 31 15 35 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> | space U G U G A C U C U G D A D 35 23 14 19 38 36 38 38 38 38 15 31 15 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | space U G U G A C U C U G D A D C 35 23 14 19 38 36 36 38 38 17 28 15 31 15 35 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

| 0 | | space | D | _ | 9 | n | . 5 | ច | × | ပ | n | ပ | ລ | G | n | A | | ပ | _ |
|-----|-----|-------|-----|-----|-----|-----|------|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 99. | .58 | .92 | .61 | .37 | .50 | - | 1.00 | 76. | .95 | 1.00 | 1.00 | 1.00 | .45 | .74 | .39 | .82 | .39 | .68 | .50 |
| 00. | 00. | .92 | 00. | 00. | | 00. | | | .08 | 00. | 00. | 00. | 00. | .00 | 00. | .00 | 00. | 00. | 00. |
| .18 | .21 | 00. | .24 | .18 | .29 | | | | .95 | 00. | 00. | 00. | 00. | .00 | .05 | .82 | 11 | .13 | .08 |
| .03 | .13 | 00. | .03 | Ξ. | .13 | | | 00. | 00. | 1.00 | 00. | 1.00 | .53 | .24 | .53 | .16 | .26 | .68 | .29 |
| 99. | .08 | | .13 | .34 | .50 | | _ | | 00. | 00. | 00. | 00. | .03 | .74 | .03 | .03 | .24 | .13 | .13 |
| .13 | .58 | .08 | .61 | .37 | 90. | - | 00. | 00. | 00. | 00. | 1.00 | 00. | .45 | .00 | .39 | 00. | .39 | 00. | .50 |
| .47 | 00. | 00. | .00 | .47 | .68 | 1 | 1 | | 00. | 1.00 | 1.00 | 1.00 | .92 | .92 | .87 | .82 | .68 | .53 | .42 |

FIG. 22B-2

| 4 |
|---------------------|
| |
| Ę |
| 4II |
| 44 |
| |
| := |
| a L |
| Ħ |
| |
| |
| |
| • []] [] [] |

| ပ | | | .16 | | |
|----|-----|-----|-----|-------|-----|
| А | .37 | .37 | 13 | 13 | 13 |
| ပ | .37 | 13 | .37 | | 13 |
| Α | | . 1 | 13 | 13 | 13 |
| ٨ | .03 | .03 | 07 | 07 | 11. |
| ٧ | .32 | .32 | 07 | -, 13 | 13 |
| В | .37 | 13 | 13 | .37 | 13 |
| ٨ | | | 13 | 13 | 13 |
| G | .37 | 13 | 13 | .37 | 13 |
| U | 05 | 07 | .24 | -,13 | 05 |
| U | .34 | 13 | 10 | 13 | .34 |
| A | 16 | 16 | 10 | .38 | 13 |
| ပ | .19 | 13 | .19 | 02 | 10 |
| ១ | 10 | .16 | 05 | 10 | 02 |
|) | .16 | .01 | 09 | 07 | .16 |
| G | 21 | | .24 | ' | 13 |
| G | 13 | l | i . | 13 | 07 |
| G | 37 | .19 | 05 | 37 | 38. |
| 6а | ×t | A | ပ | ອ | n |

FIG. 22C-1

NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

| G U A U C |) | 11 01 10 01 | .1124 .1924 .05 | . 13 - 07 10 - 24 .05 | .1124 .1924 .05 1307 .1902 .06 | .1124 .1924 .051307 .19 .02 .06 | .1124 .1924 .05 1307 .1902 .06 .11 .40 .03 .14 .05 | .1124 .1924 .051307 .1902 .0611 .40 .03 .14 .05 | .11 24 .19 24 .05 13 13 07 .19 02 .06 05 .11 .40 .03 .14 .05 .16 .11 10 10 .11 .01 .01 |
|-----------|-----|-------------|-----------------|-----------------------|-----------------------------------|---------------------------------|----------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|) n | 18 | : | - 13 | | 40 | - | - 10 | - | - |
| ပ | 1. | 1 | | ı | | Ţ | | 1 | 7 - 13 |
| _ | | 1 | | 1 | | 1 | | 1 | 3 .37 |
| ၁ | | 1 | | ı | | 1 | | 1 | - 13 |
| A | .32 | Ī | | L | | 1 | | 1 | |
| ග | .34 | | | ١ | | 1 | | ı | |
| 9 | .37 | 1 | | ĺ | | l | | ı | 13 |
| D | .37 | 1 | ٠. اع | 7 | <u> </u> | 1 | ٠. ان | 0.1 | ري. |
| 9 | 13 | 7 | 0 . | č | | 7 | اد | 20 | |
| o l | 26 | 00 | 9 | | 02 | 00 | 77: | 00 | 07 |
| 5 | 02 | 7 | | 7 | 2 | 5 | | 00 | |
| space | | | | | | | | | |
| | 05 | 0 | 1 | č | ? | אַ | 3 | ٠ م | 3 |
| | .03 | OR | ? | - 10 | 2 | C | 3 | 2 | ? |

FIG. 22C-2

LOCHOLOZ .. O10702

| 2 28 10 0 2 0 18 6 | 28 0 28 2 0 | 8 9 0 2 8 | | 16 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|-----------------------------|-------------------------|-------------------|-------|------------------------------------------|
| | 2 2 0 0 | | 0 7 8 | |
| | 28 0 | | 0 7 8 | |
| | 0 0 | | 8 | |
| | 0 | | 800 | |
| | İ | | ° | 0 |
| 7 | 0 | | 0 | 0 |
| 0 | 0 | | 0 | 1 |
| - | 2 | | 0 | 3 0 |
| 0 | 0 | | 2 | 1 2 |
| 2 3 | 8 | | 7 | 13 7 |
| | 2 0 2 | 2 1 0 0 8 2 | | 0 2 7 |

FIG.23A

NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

| | C16/G25 A17/U24 C18/G23 G19/U22 | 50 | 20. | | .05 | 80. | | | | | 00. | | | .24 |
|---------|------------------------------------|----------|-----|------|-----|-----|-----|----------|-----|----------|-----|-----|--------|-----|
| | A17/U24 C1 | 1 00 | | | 00. | 00. | 6 | 00. | 00 | 00. | 00. | 2 | 9 | 00. |
| | C16/G25 | 1 00 | | 00. | 90. | 00. | 4 | 00:- | _ | 9 | 00. | 5 | 00. | 00. |
| 7011124 | A//U31 | .42 | | | | .47 | 03 | | E0. | | 30. | .05 | | |
| 000/00 | C6/G32 A7/U31 | .74 | 00 | 00 | | | 74 | | 00. | 0.0 | | 00. | | 2 |
| 06/1/90 | G 2/033 | .05 | .26 | . 05 | | .47 | .03 | | .05 | | | .03 | 00 | |
| 114/494 | | .74 | 00. | .74 | 0.5 | co. | 00. | 18 | 00. | C | 3 | .05 | 00. | |
| G3/113E | 00/00 | .21 | .16 | 00. | 0+ | 0 | .21 | 3 | 12. | 00 | | 00. | .05 | |
| G2/C36 | 95,000 | .42 | 00. | .03 | | | .05 | ç | | .03 | 00 | .υα | .03 | |
| G1/U37 | 1 | .05 | .16 | .05 | 7 | 2 | .03 | 60 | 50. | | 00 | 00. | .03 | • |
| 6a | Ť. | <u> </u> | ₽ | Α | £ | | 3 | <u>-</u> | 3 | <u>a</u> | Ç | 2 | S S | |

FIG.23B

| | 0011104 | 13/0/52 | 14 | | - 03 | 2 | - - | | 00. | | .01 | | -15 | 5 | 70 | č | 5 | 5 | 02 |
|------------------|------------------|-----------------|--------|------|--------|------|--------|-----|------|-----|------|------|------|----------|------|------|------|-------|-------------|
| | C18/C22 | 220/819 250/025 | 7 | | 02 | | .04 | 000 | 90. | ; | = | 2 | 5 | 80. | 20. | . 00 | 30. | 18 | 2 |
| , | C16/G25 A17/1124 | | .61 | | .61 | C | 70. | 5 | 70 | 50 | 70. | 00 | 20. | - 02 | | 08 | | -03 | |
| | C16/G25 | .61 | | 100 | 02 | - 02 | -25 | - 2 | 30. | 6 | 2 | . 02 | | 08 | 3 | 02 | | 08 | |
| | 4 // U31 | 000 | .03 | 0.3 | 20. | 02 | - | .46 | 1 | 5. | 100 | 05 | 00 | 02 | 00 | 50 | 00 | 04 | |
| 000,00 | C6/G32 A7/U31 | 25 | | - 02 | | 02 | | - | 20 | .33 | 000 | UZ | 0.0 | 3 | - 02 | 300 | - 08 | 2 | 1 |
| 114/43/ 156/1199 | 93/033 | 75 - | | 6 | | Ď. | 40 | | č | 5 | 76 " | ±0. | - 02 | 10. | | | -05 | | CC |
| 114/434 | 10000 | .35 | | 02 | | | .04 | | . 02 | | - 02 | 1 | 08 | | .04 | 18 | .08 | | . 04 |
| 63/1135 | | 3 | 00 | 00. | - 02 | * | - | | 6 | | . 18 | | 02 | 3 | 02 | 3 | 40. | ı | 1/0 |
| G2/C36 G3/U35 | 5 | .U3 | 60 - | | .01 | 18 | 03 | 1 | .04 | | 05 | | | 5 | 90. | 5 | | C | 30. |
| G1/U37 | 76 | ÷0. | OR | 2 | .04 | 2 | co. | • | | Č | P 34 | 0 | eu. | 90 | ? | 2 | ? | 17 | |
| 6a | \$ | | A A | | Y N | پ | 3 | ٤ | 3 | ē | 3 | ני | 3 | <u>-</u> | | | | other | ; |

FIG.23C

FIG. 24A